

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. – 9. (cancelled)

10. (currently amended) An apparatus comprising:
a scintillator to emit light;
imaging elements to capture image information based on received light; and
an first optical filter controllably movable from a first position between the scintillator and the imaging elements to a second position not between the scintillator and the imaging elements; and
a second optical filter controllably movable from a third position between the scintillator and the imaging elements to a fourth position not between the scintillator and the imaging elements.

11. (original) An apparatus according to Claim 10,
wherein the imaging elements comprise a plurality of charge-coupled devices.

12. (original) An apparatus according to Claim 10,
wherein the imaging elements comprise a plurality of photodiodes.

13. (currently amended) An apparatus according to Claim 10, wherein an opacity of the first optical filter is controllable.

14. (currently amended) An apparatus according to Claim 13, further comprising:
a control to control an opacity of the first optical filter.

15. (currently amended) An apparatus according to Claim 10, further comprising:

a control to move the first optical filter from the first position to the second position, and to move the second optical filter from the third position to the fourth position.

16. (original) An apparatus according to Claim 10, the scintillator to receive X-rays and to emit light based on the received X-rays.

17. (currently amended) An apparatus according to Claim 16, the first optical filter to receive at least a portion of light emitted by the scintillator in a case that the optical filter is located at the first position.

18. (original) An apparatus according to Claim 10, further comprising:
a linear accelerator to emit X-rays.

19. (cancelled)

20. (currently amended) A method comprising:
determining a radiation dose to be received by a scintillator;
determining an expected amount of light to be emitted from the scintillator based at least on the determined radiation dose; and
controlling a first optical filter and a second optical filter based at least on the expected amount of light,
wherein the first optical filter is movable from a first position between the scintillator and imaging elements to a second position not between the scintillator and the imaging elements, and
wherein the second optical filter is movable from a third position between the scintillator and the imaging elements to a fourth position not between the scintillator and the imaging elements
an amount of light to be received by imaging elements based on the determined dose.

21. (cancelled)

22. (currently amended) A method according to Claim 20, wherein controlling the amount of light first optical filter and the second optical filter comprises:

moving an the first optical filter to a the first position between a scintillator and the imaging elements.

23. (currently amended) A computer-readable medium storing processor-executable process steps, the process steps comprising:

a step to determine a radiation dose to be received by a scintillator;
a step to determine an expected amount of light to be emitted from the scintillator based at least on the determined radiation dose; and
a step to control a first optical filter and a second optical filter based at least on the expected amount of light.

wherein the first optical filter is movable from a first position between the scintillator and imaging elements to a second position not between the scintillator and the imaging elements, and
wherein the second optical filter is movable from a third position between the scintillator and the imaging elements to a fourth position not between the scintillator and the imaging elements
an amount of light to be received by imaging elements based on the determined dose.

24. (cancelled)

25. (currently amended) A medium according to Claim 23, wherein the step to control the first optical filter and the second optical filter amount of light comprises:

a step to move an the first optical filter to the first position between a scintillator and the imaging elements.

26. (new) An apparatus according to Claim 10, further comprising:

a device to determine a radiation dose to be received by the scintillator, determine an expected amount of light to be emitted from the scintillator based at least on the determined radiation dose, and control the first optical filter and the second optical filter based at least on the expected amount of light.

27. (new) A method according to Claim 20, wherein controlling the first optical filter and the second optical filter comprises:

moving the second optical filter to the third position.

28. (new) A method according to Claim 27, wherein controlling the first optical filter and the second optical filter comprises:

moving the first optical filter to the first position.

29. (new) A medium according to Claim 23, wherein the step to control the first optical filter and the second optical filter comprises:

a step to move the second optical filter to the third position.

30. (new) A medium according to Claim 29, wherein the step to control the first optical filter and the second optical filter comprises:

a step to move the first optical filter to the first position.